SUBJECT INDEX VOL. 21, 1990

Corrigenda

Knutzen J. and Oehme M.: 19,1897(1989): estimate of stored TCDD in upper 10 cm of sediment is 5 kg, 1342

Schecter A., Ryan J.J., Constable J.D., Baughman R., Bangert J., Furst P., Wilmers K. and Oates R.P.: Tables 1,2,4 have been corrected, 1337

Absorption

coeff, aromatics for soil, detn by RP-HPLC on two immobilised humic acid phases, 777

coeff, prediction in soil by immobilised humic acid column using RP-HPLC, 729 model, linear alkylbenzene sul-

phonate to sediment and comparison to chronic effects data,

sorption of new acidic herbicide in soil, 1397

Adsorption

and desorption of 3.4-dichloroaniline on soil, 1087 coeff, and HPLC retention factors of aromatic hydrocarbons, 495 coeff, contribution of soil consituents, aromatic compounds, halogenated alicyclic and aromatic compounds to soil 867 coeff, Koc, prediction for aromatic pollutants, 1199

over Amazonia, assessment of origin and composition, higher mo-lecular weight organic compds, 1285

Chlorella vulgaris, Zn and Cd, bioaccumulation and toxicity, 953

Chlorella vulgaris, Zn and Cd, bioaccumulation, association of metals and cell tissue, 965 green algae, nitro- and amino

substituted aromatic compds as

N source, 231

growth inhibition toxicity, comparison of test method with short term 14C-assimilation test.

Ames test

simulated conditions for-, chemi-cal stability of bacterial potent (Z)-2-chloro-3-(dichloromethyl 4-oxobutenoic acid and related compds, 771

Amines

3,4-dichloroaniline, adsorption and desorption on soil, 1087 3,4-dichloroaniline, review of fate and toxicity in aquatic environment, 1489

4-chloroaniline cellwall bound residues, formation, distribution and bioavailability, 349 methyl- and/or chloro-substituted

anilines and polar narcosis mechanism of toxicity, 183

Amino acids

effect on metacyclgenesis and multipication of Trypanosome cruzi, 269

glutathione depleted rats, toxicokinetics of Ni, 925

arctic seal, re-evaluation of PCDF, PCDD and pesticide con-centration levels, 519

herring sea gull chicks, carboxylated porphyrins as biomarker for poly-halogenated aromatic hydrocarbons, Great lakes, 1970,

linear alkylbenzene sulfonate, safety assessment 251

mice, immune response, non spe-cific effect of Flavobacterium halmophilum and Planococcus halophilus 701

rabbit platelet activation, effect of polycyclic aromatic hydrocarbons on Ca ionophore, 21 rats, glutathione depleted

toxicokinetics of Ni, 925

rats, identification of biliary metabolites of 2,3,7,8-TCDF,

seals from different regions, chlorinated hydrocarbon patterns in blubber, 13

terrestrial-, uptake of xenobiotics via food, model for kinetics of non-metabolided compds, 681

alkanes, fatty acids, alkanols, aldehydes, phenols and aromatic hy-drocarbons, in rain precipitation in Hanover, 1037

blood level of n-decane and mxylene detn using Amberlite XAD-2, 459

chlorinated and methylated dibenzothiophenes, in environmental samples, 1161

chlorine compds, sediments lake Baikal near pulp mill, 1381 chlorohydrocarbons, free and bound chlorophenols in lake

sediments, 1355 data, acceptance criteria for

PCDDs and PCDFs, 999 determination, occurrence and relative toxicity of AHH-active PCBs, 2,3,7,8-PCDDs and 2,3,7,8-PCDFs, in lake Michigan sediment and biota, 1063 dioxins, furans and chloroaromatic

compds in lake sediment, 1371 GC-ECD and GC-MS-, comparison, specific PCB residues in human adipose tissue, 487

lake-, organically bound Cl and inorganic chloride, 1343 new standard, toxaphene residues

in fish and fish products, 29 organic halogen group parameters, ground water investigation, 135 PCDD and PCDF in soil and di-

gested sewage sludge from Stockholm, 1213

polycyclic aromatic hydrocarbons, Shipol'skii fluorimetry, independent identification method to upgrade HPLC analysis, 377

rain precipitation in Hanover analysed for alkanes, fatty acids, alkanols, aldehydes, phenols and aromatic hydrocarbons, 1037

registering and detection, organic chemicals in environment, 1429 simultaneous-, 50 pesticides in water samples, by solid phase extraction and GC-MS, 1411

Aquatic organisms

Elliptic complanata, Otonabee river, distribution of PCB congeners, 1441

Mytilus galloprovincialis, PCB and DDT concentrations, long term trends, 153

Aquatic systems

Baltic sea area, elemental concentrations of aerosol samples, 339 Black forest lake, acidified, metal

forms in sediment core, 201 commercial humic acid and natural dissolved aquatic organic compds, structural and behavioral characteristics, 1181

eels as heavy metal indicators, concentrations of Hg, CD and Pb in samples, 695

Ganges water system, trace metal ions, 275

Great lakes, acute toxicity and in-teraction at GABA receptor of rat and trout brain, chlordane residues, 393

Japanese coastal areas, PCDDs in sediments accumulated about 8120 years ago, 825

lake Michigan sediment and biota, determination, occurrence and relative toxicity of AHH-active PCBs, 2,3,7,8-PCDDs and 2,3,7,8-PCDFs, 1063

ocean, trace metal ions from Ganges water system, 275 Otonabee river, distribution of PCB congeners in Elliptic com-

planata, 1441 outdoor experimental stream, effects of diflllubenzuron and methoprene on emergence and

density of insects, 1321 toxicity of oil products, prep and characterisation of aqueous test media, 659

Atmosphere

device capable of generating stable concentrations of moderate and low volatility organic compds, 991

photolysis, organic compds under atmosperic conditions, cylindrical reactor using ethyl nitrite and nitrogen, 1423

Automobiles

sorption of benzene and naphthalene from residual hydrocarbons resulting from unleaded gaso-line, 975

Flavobacterium halmophilum and Planococcus halophilusnon specific effect on immune response in mice, 701

potent mutagen (Z)-2-chloro-3-(di-chloromethyl)-4-oxobutenoic acid and related compds, chemical stability at simulated Ames test conditions, 771 soil bacterial isolate, degradation of [1-14C-propyl]EPTC (S-ethyl dipropylthio-carbamate), 1457

Bioaccumulatio

and toxicity of Zn and Cd in Chlorella vulgaris, 953
Zn and Cd in Chlorella vulgaris, association of metals and cell tissue, 965

Bioassay

in vitro bioassays of PCBs, appli-cation to chick embyro hepatocytes, quantitative struc-ture-induction relationships, 1007

Bioavailability

cellwall bound residues of 4-chloroaniline and 2,4-dichlorophenol, formation, distribution and bioavailability, 349 to rats, bound residues of DDT and HCH in wheat, 1315

Bioconcentration

PCDDs, in fish, quantitative structure-activity relationship, 1385 pesticide vapours in plant leaves, azalea model, 525

Biodegradation

and inhibitory threshold concentration of disinfectants, effect on sewage plant performance, 799 kinetics, review in aquatic environment, 1243

products of o-nitroaniline and din-butyl phthalate, cell suspenion cultures of tomatoes, 557 rate constants, parameters for fate

of organochlorine pesticides in environment, 1141 testing, poorly soluble compds by manmetric respirometry,

Biota

1477

lake Michigan-, and sediment de-

termination, occurrence and relative toxicity of AHH-active PCBs, 2,3,7,8-PCDDs and 2,3,7,8-PCDFs, 1063

Nereis diversicolor in sediment, effects of poly-dimethyl-siloxane, 751

studies in earthworm, approach to quantitative structure-activity relationships, 1023

Biotransformation

and tissue distribution of 1,2,3,7-TCDD, 1,2,3,4,7-PCDD and 2,3,4,7,8-PCDD in rainbow trout 845

Biphenyls

AHH-active PCBs, 2,3,7,8-PCDDs and 2,3,7,8-PCDFs, relative toxicity, determination and occurrence in lake Michigan sediment and biota, 1063

and DDT, long term trends, concentrations in Mytilus galloprovincialis, 153

concentrations in soils from Kirk Sandall/Edenthorpe/ Barnby Dub area, 563

congeners, distribution in Elliptic complanata, Otonabee river,

detection in environment, registering and analysing, 1429

in vitro bioassays, application to chick embyro hepatocytes, quantitative structure-induction relationships, 1007

mixtures in biological samples, characterisation, evaluating stability of phenyl groups to environmental influences, 613

mono- and non-ortho coplanar compds, determination in fish, 173

pollution of storm water runoff. 1101

specific residues in human adipose tissue, detn, comparison of GC-ECD and GC-MS, 487

Carbamates

carbofuran, photodegradation, 99
[1-14C-propyl]EPTC (S-ethyl dipropylthio-carbamate), degradation by soil bacterial isolate, 1457

Carbohydrates

zearalenone-4-B-glucopyranoside, chemical and bio-logical synthesis, comparison and detn by gradient HPLC, 435

Carboxylic acids

(Z)-2-chloro-3-(dichloromethyl)-4-oxobutenoic acid and related compds, chemical stability as bacterial potent mutagen under simulated conditions for Ames test, 771

polycarboxylic acids in activated sludge, partitioning, 443

Chromatography

aromatic compounds, halogenated alicyclic and aromatic compds, soil adsorption coeff, contribution of soil constituents, 867 carbofuran, photodegradation products, 99

gas-, characterisation of vapour sorption on soils, review, 537 GC-ECD and GC-MS, analysis, comparison, specific PCB residues in human adipose tissue,

general structure-vapor pressure relationships, 1173

higher molecular weight organic compds in aerosols over Amazonia, assessment of origin and composition, 1285

HPLC retention factors and adsorption coeff of aromatic hydrocarbons, 495

immobilised humic acid column using RP-HPLC, prediction of adsorption coeff for soil, 729 levels of PCDFs, selected edible fish, 215

lipophilic organic compds, octanol-water partition coeff and aqueous solubility, prediction using molecular descriptors and

physiochemical properties, 877 methylmercury chloride and mercuric chloride, induction phospholipid peroxidation, rat kidney, 57

metribusin, different tolerance of Triticum turgidum and T. aestivum, 223

PCBs, mono- and non-ortho coplanar, determination in fish, 173

polycyclic aromatic hydrocarbons, Shipol'skii fluorimetry, independent identification method to upgrade HPLC analysis, 377

upgrade HPLC analysis, 377 RP-HPLC on two immobilised humic acid phases, detn of adsorption coeff of aromatics for soil, 777

simultaneous analysis, 50 pesticides in water samples by solid phase extraction and GC-MS,

structural and behavioral characteristics of commercial humic acid and natural dissolved aquatic organic compds, 1181 toxaphene residues in fish and fish

products, 29 uptake by plants, processes, correlations and models. 297

zearalenone, α- and β-zearalenol and zearalenone-glucoside, simultaneous detn, 435

Combustion

waste organochlorine material, emission of volatile chlorinated organic compds, 761

Concentration

elemental—, aerosol samples, Baltic sea area, 339 PCB and DDT in Mytilus gal-

PCB and DDT in Mytilus galloprovincialis, long term trends, 153

variation, irradiation of alcoholic soln of hydrogen peroxide, effect of isoproturon, 1095

Contamination

chlorinated hydrocarbons, seal blubber from different regions, 13

levels of DBDs, DBFs and polychlorinated hydrocarbon in Abramis brama, 79 soil—, via sorption of benzene and naphthalene from residual hydrocarbons from unleaded gasoline, 975

Culture

cell suspenion-, of tomatoes, metabolism of o-nitroaniline and di-n-butyl phthalate, 557

media conditioned vero cells, in vitro survival of amastigote forms of Trypanosoma cruzi, 263

Degradation

irradiation of alcoholic soln of hydrogen peroxide, effect of isoproturon on concentration, 1095

methyl metsulfuron products, 289

PBrDD, copper promoted reactions, 417

photo-, carbofuran, identification of products, 99

photo-, monochlorobenzene in titanium dioxide aqueous suspension, 1435

photo-, fenitrothion, effect of substituted benzophenones, 589 pyrolysis of trichloro-ethylene, formation of chlorinated com-

pds, 479
[1-14C-propyl]EPTC (S-ethyl dipropylthio-carbamate) by soil bacterial isolate, 1457

Dehalogenation

photo-, of captan fungicides, 905 reductive dechlorination of chlorinated compds by reduced hematin, comparison with behaviour in environment, 451

Desorption

and adsorption of 3,4-dichloroaniline on soil, 1087

Detection

registering and analysing, organic chemicals in environment, 1429

Detoxification

difluoro-chloro-bromo-methane, fumigation, Petunia hybridi and Phaseolus vulgaris, 1499

Dioxins

1,2,3,7-TCDD, 1,2,3,4,7-PCDD and 2,3,4,7,8-PCDD, tissue distribution and biotrans-formation in rainbow trout 845

2,3,7,8-TCDD, transport and fate in soybean and com, 359 AHH-active PCBs, 2,3,7,8-PCDDs and 2,3,7,8-PCDEs relative toxicity

2,3,7,8-PCDFs, relative toxicity, determination and occurrence in lake Michigan sediment and biota, 1063

chlorinated—, in livers of stillborn i nfants, trans-placental transfer from mother to fetus, 1017 DBDs, contamination levels in

bream, 79

DCDs compds in lake sediment, 1371

PBrDD, copper promoted reactions, 417

PCDD analysis in soil and digested sewage sludge from Stockholm, 1213

PCDD concentrations in different points of modern refuse incinerator, 507

PCDD and PCDF, comparison of levels in soil grass, cow's milk, humblood and spruce needles, metal reclamation plant area, 1451

PCDD, concentrations in soils from Kirk Sandall/Edenthorpe/ Bamby Dun area, 563

PCDD, concentration levels reevaluation in arctic seal, 519 PCDD and related compds in cows milk, effect of regional

emissions and cardboard containers, 789 PCDDs in human adipose tissue samples, Ontario municipalities,

1465 PCDDs, acceptance criteria for analytical data, 999

PCDDs, baseline assessment, area generation station, Minnesota, 159

PCDDs in sediments accumulated about 8120 years ago, Japanese coastal areas 825

PCDDs, levels and sources in British soils, 931

PCDDs, levels in detergents and related products, 43 PCDDs, bioconcentration in fish,

quantitative structure—activity relationship, 1385

Disinfectants

biodegradability and inhibitory threshold concentration, effect of sewage plant performance, 799

Distribution

drift, and volatilization of diazinon resulting from spray application to a dormant peach orchard 1303

PCB congeners in Elliptic complanata, Otonabee river, 1441 tissue-, and biotransformation of 1,2,3,7-TCDD, 1,2,3,4,7-PCDD and 2,3,4,7,8-PCDD in rainbow trout 845

Ecosystems

ecotoxicology of oil products, prep and characterisation of aqueous test media, 659 forest-, of Europe, fluoridealuminium water chemistry, 597

Embryos

early life stages of *Brachydanio* rerio, effect of ¹⁴C- lindane and ¹⁴C-atrazine, 1125

Environment

aquatic-, review of biodegradation kinetics, 1243 aquatic-, review of fate and toxicity of 3,4-dichloro-aniline, 1489

detection of chemicals, registering and analysing, 1429

influences in-, evaluating stability of phenyl groups in charac-terisation of PCB mixtures in biological samples, 613

parameters for fate of organochlorine pesticides, biodegradation rate constants, 1141

persistence of chlorinated organocompds and reductive dechlorination by reduced hematin, comparison, 451

samples, chlorinated and methylated dibenzothio-phenes, preparation of model compounds and their analysis, 1161

sources of elemental concentration in aerosol samples, Baltic sea area, 339

temp-dependent changes, effect on fate of aerially applied insecticides, 647

Enzymes

nitrogenase activity of Hordeum vulgare, effect of Azotobacter, 243

Extraction

soxhlet and sonification-, comparison, polynuclear aromatic hydrocarbons in soil, 91

Abramis brama, contamination levels of DBDs, DBFs and polychlorinated hydrocarbon, 79

and fish products, toxaphene residues, new analytical standard,

Anguilla anguilla, use in catchment survey for heavy metals,

Brachydanio rerio, early life stages, kinetics of ¹⁴C- line - lindane and 14C-atrazine, 1125

determination of mono- and nonortho coplanar PCBs, 173 PCDDs, bioconcentration, quantitative structure-activity rela-

tionship, 1385 perch species, behavior of diazinon, 193

rainbow trout, 1,2,3,7-TCDD, 1,2,3,4,7-PCDD and 2,3,4,7,8-PCDD, tissue distribu tion and bio-transformation, 845 selected edible-, levels of PCDFs, 215

cows milk, levels of PCDF, PCDD and related compds, effect of regional emissions and cardboard containers, 789

selected edible fish, levels of PCDFs, 215

wheat, bound residues of DDT and HCH and their bioavailability to rats, 1315

ugacity
model, aerial application of pesticides, fate in 'spray zone' and
'adjacent zone', 627
model, aerial application of pesticides, temp-dependent changes,
effect on fate, 647

Fumigation

Petunia hybridi and Phaseolus vulgaris, responses to difluorochloro-bromo-methane, 1499

Fungicides and photochemistry, photodehalogenation of captan,

2,3,7,8-TCDF, identification of biliary metabolites in rats, 1231 AHH-active PCBs, 2,3,7,8-PCDDs and 2,3,7,8-PCDFs, relative toxicity, determination and occurrence in lake Michigan sediment and bi-

ota, 1063 chlorinated-, in livers of stillborn infants, trans-placental transfer from mother to fetus, 1017

DBFs, contamination levels in bream, 79

DBFs in lake sediment, 1371 PCDF analysis in soil and digested sewage sludge from Stockholm, 1213

PCDF and PCDD, comparison of levels in soil grass, cow's milk, hunam blood and spruce needles, metal reclamation plant area, 1451

PCDF and related compds in cows milk, effect of regional emissions and cardboard containers, 789

PCDF concentrations in different points of modern refuse incinerator, 507

PCDF concentrations in soils from Kirk Sandall/Edenthorpe/ Bamby Dun area, 563 PCDF concentration levels re

evaluation in arctic seal, 519 PCDFs acceptance criteria for analytical data, 999

generation station, Minnesota, 159 PCDFs baseline assessment, area

PCDFs in human adipose tissue samples, Ontario municipalities, 1465

PCDFs levels and sources in Brit-

ish soils, 931 PCDFs levels in detergents and related products, 43

Growth

effect of amino acids on metacyclgenesis and multipica-tion of Trypanosome cruzi, 269

Halogen compounds

3,4-dichloroaniline, adsorption and desorption on soil, 1087 3,4-dichloroaniline, review of fate and toxicity in aquatic environment, 1489

4-chloroaniline and

2,4-dichlorophenol, cellwall bound residues, formation, distribution and bioavailability, 349 chlorine compds, sediments lake

Baikal near pulp mill, 1381 chloro-substituted and/or methylanilines, polar narcosis mechanism of toxicity, 183

chloroaromatic compds, effect on biological activity of Azotobacter chroococcum, 51

chlorohydrocarbons, free and bound chlorophenols in lake sediments, 1355

difluoro-chloro-bromo-methane, fumigation, Petunia hybridi and Phaseolus vulgaris, responses, 1499

dioxins, furans and chloro-aromatic compds in lake sediments,

1371

monochlorobenzene. photodegradation in titanium dioxide aqueous suspension, 1435 organic halogen group parameters,

ground water investigation, 135 organically bound Cl and inorganic chloride in lake sediment, 1343

polyhalogenated aromatic hydrocarbons, carboxylated porphyrins as biomarker, presence in herring sea gull chicks, Great lakes 1970, 407

uptake by plants, processes, corre-lations and models. 297

Halogenation

chlorination of domestic sewage, formation of non-volatile potent mutagens, 705

different chlorination reactions, formation of chlorinated polycyclic aromatic hydrocar-bons, 939

fluoride-aluminium water chemistry in forest ecosystems of Europe, 597

Health hazards

transplacental transfer of dioxins and dibenzofurans from mother to fetus, chlorinated dibenzofurn and dioxins in livers of stillborn infants, 1017

Herbicides

aromatic hydrocarbons, adsorption coeff and HPLC retention factors, 495

atrazine and selected metabolites, contamination of ground water,

methyl metsulfuron, reactivity and degradation products, 289 metribusin, different tolerance of

Triticum turgidum and T. aestivum, 223 new acidic-, sorption in soil, 1397 [1-14C-propyl]EPTC (S-ethyl dipropylthio-carbamate), degradation by soil bacterial isolate,

Humic substances

commercial humic acid and natural dissolved aquatic organic compds, structural and behavioral characteristics, 1181

Hydrocarbons

aromatic-, uptake by plants, processes, correlations and models.

chlorinated polycyclic aromatic-, formation in different chlorination reactions, 939

chlorinated-, characteristic pattems, blubber of seals from different regions, 13

fluoranthene, formation by ionic

pathway, 333 linear alkylbenzene sulfonate, safety assessment for plants and animals, 251

polychlorinated-, DBFs and DBCs, contamination levels in bream, 79

polycyclic aromatic-, effect on Ca ionophore, rabbit platelet activation, 21

polycyclic aromatic-, Shipol'skii fluorimetry, independent identification method to upgrade HPLC analysis, 377

polyhalogenated aromatic-, carboxylated porphyrins as biomarker, presence in herring sea gull chicks, Great lakes 1970, 407

polynuclear aromatic-, in soil, soxhlet and sonification extraction, comparison, 91

residual-, from unleaded gasoline, contamination of soil, sorption of benzene and naphthalene, 975

Incinerators

modern refuse-, concentrations of PCDD and PCDF in different points, 507

Industry

hygiene, device capable of generating atmospheres with stable concentrations of moderate and low volatility organic compds, 991

Irradiation

UV-, effect on formation of chlorinated polycyclic aromatic hydrocarbons in different chlorination reactions, 939

Immune system

response in mice, non specific effect of Flavobacterium halmophilum and Planococcus halophilus 701

Insecticides

chlordane residues, acute toxicity and interaction at GABA recep tor of rat and trout brain, Great lakes, 393

DDT and HCH, bound residues in wheat and their bioavailability to rats, 1315

DDT and PCB, long term trends, concentrations in Mytilus galloprovincialis, 153 diazinon, behavior in perch spe-

cies, 193

fenitrothion-, photochemical fate, effect of substituted benzophenones, 589

toxaphene residues in fish and fish products, new analytical standard, 29

emergence and their density in an outdoor experimental stream, ef-fects of difillubenzuron and methoprene, 1321

Isotopic labelling diazinon, synthesis and behavior in perch species, 193 ¹⁴polycarboxylic acid, partitionong in activated sludge, 443

14C- lindane and 14C-atrazine, effect on early life stages of Brachydanio rerio, 1125

biodegradation-, review in aquatic environment, 1243

model for-, of non-metabolided compds in uptake of xenobiotics via food in terrestrial animals. 681

rate constants, photolysis organic compds under atmosperic conditions, 1423

toxicokinetics of Ni in glutathione depleted rats, 925

Lipids

lipophilic organic compds, octanol-water partition coeff and aqueous solubility, prediction using molecular descriptors and physiochemical properties, 877

Metabolism

and fate, 2,3,7,8-TCDD, soybean and com, 359

human-, of pentachloro-phenol, detn from urine samples, 919 o-nitroaniline and di-n-butyl phthalate, metabolism in cell suspenion cultures of tomatoes,

perch species, behavior of diazinon, 193

processes, models and correlations, plants uptake of organic compds, 297

Metabolites

biliary-, identification of 2,3,7,8-tetra-chlorodibenzofuran in rats, 1231

selected-, and atrazine, contamination of ground water, 813

Metals non-metals and compounds

Ca ionophore, rabbit platelet acti-vation, effect of polycyclic aromatic hydrocarbons, 21

copper promoted reactions with PBrDD, 417

elemental concentration, aerosol samples, Baltic sea area, 339 fluoride-aluminium water chemis-

try in forest ecosystems of Europe, 597

forms in sediment core, acidified

Black forest lake, 201 heavy-, catchment survey using the eel, 695

methylmercury chloride and mercuric chloride, induction and characteristics, phospholipid peroxidation, rat kidney, 57

Ni in glutathione depleted rats, toxicokinetics, 925

Pb,Zn, Cr, PCBs and lindane, pollution of storm water runoff,

polydimethylsiloxane, effects on Nereis diversicolor in sediment.

reclamation plant area, comparison of PCDD/PCDF levels in soil grass, cow's milk, hunam blood and spruce needles, 1451

selected iron compds, effect on sensitised photooxidation of bromacil, 717

titanium dioxide aqueous suspen-sion, photodegradation of monochlorobenzene, 1435

trace-, ions in Ganges water system, 275 Zn and Cd, bioaccumulation in

Chlorella vulgaris, association of metals and cell tissue, 965 Zn and Cd, toxicity and bioac-cumulation in Chlorella vul-

garis, 953

Microorganisms
Azotobacter chroococcum, effect of chloroaromatic compds on biological activity, 51 Azotobacter, effect on nitrogenase activity of Hordeum vulgare,

Trypanosoma cruzi, in vitro survival of amastigote forms in media conditioned vero cells, 263

Trypanosome cruzi, metacyclgenesis, effect of amino acids on multipication, 269

chlorinated and methylated dibenzothiophenes, preparation of model compounds and their analysis, environmental samples, 1161

for adsorptiom of linear alkylbenzene sulphonate to sediment and comparison to chronic effects data, 741

for kinetics of non-metabolided compds in uptake of xenobiotics via food in terrestrial animals,

fugacity-, aerial application of pesticides, temp-dependent changes, effect on fate, 647 fugacity—, for aerial application of pesticides, fate in 'spray zone' and 'adjacent zone', 627 processes and correlations, plants

uptake of organic compds, 297

Mutagens

bacterial potent-, (Z)-2- chloro-3-(dichloro-methyl)-4-oxobutenoic acid and related compds, chemical stability at simulated Ames test conditions,

non-volatile potent-, formation in domestic sewage by chlorination, 705

Mycotoxins

zearalenone-4-B-gluco-pyranoside, chemical and bio-logical synthesis, comparison and detn by gradient HPLC, 435

Nitro compounds

nitro- and amino-substituted aromatic compds, N source for green algae, 231

Nitrogen fixation

Azotobacter, effect on nitrogenase activity of Hordeum vulgare, 243

effect of chloroaromatic compds on biological activity of Azotobacter chroococcum, 51

products, ecotoxicology, prep and characterisation of aqueous test media, 659

Organic compounds

chlorinated-, reductive dechlorina-tion by reduced hematin, comparison with behaviour in environment, 451

chlorine-, sediments lake Baikal near pulp mill, 1381 chlorohydrocarbons, free and bound chlorophenols in lake sediments, 1355

dioxins, furans and chloro-aromatic compds in lake sediment,

nitro- and amino-substituted aromatic compds, N source for green algae, 231

non H-bonding compds, effect of chain length on entropy of vaporisation, 111

organically bound Cl and inorganic chloride in lake sediment,

photolysis, under atmosperic conditions, cylindrical reactor using ethyl nitrite and nitrogen, 1423

poorly soluble compds, biodegradability testing by

manmetric respirometry, 1477
volatile chlorinated organic compds, emission by combustion of organochlorine waste material,

Oxidation

sensitised photo-, of bromacil, ef-fect of selected iron compds,

cardboard containers and regional emissions of PCDF, PCDD and related compds, effect on cows milk, 789

Partition coefficients

octanol-water-, and aqueous solu-bility, prediction for lipophilic organic compds using molecular descriptors and physio-chemical properties, 877

octanol-water-, evaluation of stir-flask method, 119

Partitioning

polycarboxylic acid in activated sludge, 443

Peroxides

hydrogen peroxide concentration in alcoholic soln, photolysis, effect of isoproturon, 1095

Pesticides

14C- lindane and 14C-atrazine, effect on early life stages of Brachydanio rerio, 1125

50 pesticides in water samples, simultaneous analysis by solid phase extraction and GC-MS,

aerial application of-, fugacity model, fate in 'spray zone' and 'adjacent zone', 627

areial application of-, effect of temp-dependent changes on fate, 647

bromacil, sensitised photooxidation, effect of selected iron compds, 717

carbetamide, photostability and formulation effect of acetophenone, 913

diazinon resulting from spray application to a dormant peach orchard, volatilization, drift and distribution, 1303

diflllubenzuron and methoprene effects on emergence of insects and their density in an outdoor experimental stream 1321

effect on biological activity of Azotobacter chroococcum, 51 environmental persistence of chlorinated organo-compds and re-ductive dechlorination by reduced hematin, comparison, 451

evaporation from natural and model surfaces in field and laboratory study, 1109

from natural and model surfaces in field and laboratory study, 1109 organochlorine-, parameters for

fate in environment, biodegradation rate constants 1141 pollution of storm water runoff by PCBs, lindane, Pb,Zn and Cr,

uptake by plants, processes, corre-lations and models. 297

Phenols

2,4-dichlorophenol, cellwall bound residues, formation, distribution and bioavailability, 349 pentachlorophenol, human metabolism, urine samples, 919

Phospholipids

phospholipid peroxidation, induc-tion and characteristics, methylmercury chloride and mercuric chloride, rat kidney, 57

Photochemistry degradation of carbofuran, 99 degradation, monochloro-benzene in titanium dioxide aqueous suspension, 1435

fate of fenitrothion, effect of substituted benzo-phenones, 589 fungicides, dehalogenation of cap-

tan, 905

irradiation of alcoholic soln of hydrogen peroxide, effect of isoproturon on concentration, 1095

photolysis, organic compds under atmosperic conditions, cylindrical reactor using ethyl nitrite and nitrogen, 1423

photostability and formulation of carbetamide, effect of acetophenone, 913 sensitised oxidation of bromacil.

effect of selected iron compds,

Plants

Allium environment, thiosulfinates in vapaor phase, stable and persistent, 837

cellwall bound residues of 4-chloroaniline and 2,4-dichlorophenol, formation, distribution and bioavailability,

green algae, nitro- and aminosubstituted aromatic compds as N source, 231

Hordeum vulgare, nitrogenase activity, effect of Azotobacter, 243 leaves of-, bioconcetration of pesticide vapours azalea model, 525

linear alkylbenzene sulfonate, safety assessment 251 Petunia hybridi and Phaseolus vulgaris, responses to furniga-tion with difluoro-chloro-

bromo-methane, 1499 soybean and com, 2,3,7,8- TCDD,

transport and fate, 359 Triticum turgidum and T. aes-tivum, tolerance difference to metribusin, 223

uptake of organic compds, processes, correlations and models. 297

wheat, bound residues of DDT and HCH and their bioavailability to rats, 1315

Pollutants

aromatic-, prediction of soil adsorption coefficient Koc, 1199 organic air-, at the mg/m³ level, collection of mixtures, sampling efficiency of amberlite XAD-2 with glassfiber prefilter and activated charcoal as backup section, 889

trichloroethylene, pyrolysis, formation of chlorinated compds,

Pollution

comparison of PCDD/PCDF levels in soil grass, cow's milk, hunam blood and spruce needles, metal reclamation plant area, 1451

ocean, trace metal ions from Ganges water system, 275 organochlorine-, global distribution, 13

PCDFs and PCDDs, baseline assessment, area generation station, Minnesota, 159

pulp mills, chlorine compds, sediments lake Baikal, 1381 pulp mills, chlorohydrocarbons, free and bound chlorophenols in

lake sediments, 1355
pulp mills, dioxins, furans and
chloroaromatic compds in lake

sediment, 1371
pulp mills, organically bound Cl
and inorganic chloride in lake
sediment, 1343

rain precipitation in Hanover analysed for alkanes, fatty acids, alkanols, aldehydes, phenols and aromatic hydrocarbons, 1037

stormwater runoff by PCBs, lindane, Pb,Zn and Cr, 1101

Porphyrins

carboxylated—, as biomarker, poly-halogenated aromatic hydrocarbons in herring sea gull chicks, Great lakes 1970, 407

Pyrolysis

trichloroethylene, formation of chlorinated compds, 479

QSARs see Structure-Activity relationship

Quality

control, acceptance criteriafor analytical data on PCDFs and PCDDs, 999

Rain

analysis for alkanes, fatty acids, alkanols, aldehydes, phenols and aromatic hydrocarbons in rain precipitation over Hanover, 1037 Receptors

structure receptor binding of PCBs, applicationin of vitro bioassays of PCBs to chick embyro hepatocytes, 1007

Resin

Amberlite XAD-2, detn of ndecane and m-xylene in blood, 450

organic air pollutants at the mg/m³ level, collection of mixtures, sampling efficiency of amberlite XAD-2 with glassfiber prefilter and activated charcoal as backup section, 889

Sediments

accumulated about 8120 years ago, PCDD presence, Japanese coastal areas, 825 lake Baikal-, chlorine compds,

near pulp mill, 1381 lake-, chlorohydrocarbons, free and bound chloro-phenols, 1355

lake-, dioxins, furans and chloroaromatic compds, 1371 lake-, organically bound Cl and inorganic chloride, 1343

linear alkylbenzene sulphonate, adsorption model, and comparison to chronic effects data, 741 Nereis diversicolor in-, effects of

polydimethylsiloxane, 751 sediment core, metal forms in acidified Black forest lake, 201

Course

domestic-, non-volatile potent mutagens formed by chlorination, 705

plant performance, effect of biodegradability and inhibitory threshold concentration of disinfectants, 799

Sludge

activated sludge system, benchscale, fate of anethole and dipentene 1153

activated-, partitioning of polycarboxylic acid, 443

digested sewage-, and soil, Stockholm, PCDF and PCDD analysis, 1213

sewage-, soil treatment, safety assessment of linear alkylbenzene sulfonate for plants and animals, 251

Soil

adsorption and desorption of 3,4-dichloroaniline, 1087 adsorption coeff for aromatics, detn by RP-HPLC on two immobilised humic acid phases, 777

adsorption coeff Koc, prediction for aromatic pollutants, 1199 and digested sewage sludge, Stockholm, PCDF and PCDD analysis, 1213

bacterial isolate, degradation of [1-14C-propyl]-EPTC (S-ethyl dipropylthio-carbamate), 1457

British soils, levels and sources of PCDFs and PCDDs, 931

comparison, soxhlet and sonification extraction of polynuclear aromatic hudrocarbons in soil, 91

contribution of constituents to adsorption coefficient of aromatic compounds, halogenated alicyclic and aromatic compounds to soil 867

effect of chloroaromatic compds on biological activity of Azotobacter chroococcum, 51

from Kirk Sandall/Edenthorpe/ Barnby Dun area, PCDF, PCDD and PCB concetrations, 563 organic contaminants in—cosol-

organic contaminants in-, cosolvent effects on sorption and mobility, 575

PCDF and PCDD, comparison of levels in soil grass, cow's milk, hunam blood and spruce needles, metal reclamation plant area, 1451

prediction of adsorption coeff by immobilised humic acid column using RP-HPLC, 729

sewage sludge treatment, safety assessment of linear alkylbenzene sulfonate for plants and animals, 251

sorption of benzene and naphthalene from residual hydrocarbons resulting from unleaded gasoline, 975

sorption of new acidic herbicide, 1397

vapour sorption on-, characterisation by gas chromatography, review, 537

Solubility

aqueous-, prediction and octanolwater partition coeff for lipophilic organic compds using molecular descriptors and physiochemical properties, 871

Solvents

acetophenone, effect on photostability and formulation of carbetamide, 913 cosolvent effects on sorotion and

cosolvent effects on sorption and mobility of organic contaminants in soil 575

n-decane and m-xylene, detn in blood using Amberlite XAD-2, 459

Spectrometry

GC-ECD and GC-MS, analysis, comparison, specific PCB residues in human adipose tissue, 487

teroids

dormant peach orchard, volatilization, drift and distribution of diazinon, 1303

Structure-Acivity relationship methyl- and/or chloro-substituted anilines and polar narcosis mechanism of toxicity, 183 QSAR analysis, acute toxicity of oxyethylated surfactants, 467 quantitative-, bioconcentration of PCDDs in fish, 1385 quantitative-, studies on earth-worm, 1023

Sulfur compounds

thiosulfinates in vapaor phase, sta-ble and persist in the environment of Allium 837

Surfactants

characteristics in toxicity identification evaluation, 3

linear alkylbenzenesulphonate, adsorption to sediment and comparison to chronic effects data,

oxyethylated-, acute toxicity, QSAR analysis, 467

PCDFs and PCDDs, levels in detergents and related products, 43

Techniques

manmetric respirometry, biodegradability testing, poorly soluble compds, 1477

octanol-water partition coeffs, evaluation of stir-flask method, 119

photolysis, organic compds under atmosperic conditions, cylindrical reactor using ethyl nitrite and nitrogen, 1423

soxhlet and sonification extraction, comparison, polynuclear aromatic hudrocarbons in soil,

Terpenes

fate of anethole and dipentene in a bench-scale activated sludge system 1153

comparison of algal growth inhibition toxicity test method with short term ¹⁴C-assimilation test,

Thiophenes

chlorinated and methylated dibenzothiophenes, preparation of model compounds and their analysis, environmental samples,

Tissues and Tissue fluids

blood, detn of n-decane and mxylene using Amberlite XAD-2, 459

blubber, seals from different regions, chlorinated hydrocarbon patterns 13

cell tissue, association of Zn and Cd in Chlorella vulgaris, 965 cultured chick embyro

hepatocytes, use as in vitro bioassays for PCBs, quantitative structure-induction relationships, 1007

human adipose tissue samples, PCDFs and PCDDs, Ontario municipalities, 1465

human adipose tissue, detn of specific PCB residues, comparison of GC-ECD and GC-MS, 487

kidney. methylmercury chloride and mercuric chloride, induction phospholipid peroxidation, rats

livers of stillborn infants, transplacental transfer of chlorinated dioxins and dibenzofurans from mother to fetus, 1017

media conditioned vero cells, in vitro survival of amastigote forms of Trypanosoma cruzi,

263

PCDF and PCDD, comparison of levels in soil grass, cow's milk, hunam blood and spruce needles, metal reclamation plant area, 1451

platelet activation, effect of polycyclic aromatic hydrocar-bons on Ca ionophore, rabbits,

rat and trout brain, acute toxicity and interaction at GABA receptor of chlordane residues, Great lakes, 393

Toxicity

acute-, and interaction at GABA receptor of rat and trout brain, chlordane residues, Great lakes,

acute-, QSAR analysis of oxyethylated surfactants, 467 and bioaccumulation of Zn and Cd

in Chlorella vulgaris, 953 inhibition-, of algal growth, com-parison of test method with short term 14C-assimilation test, 671

polar narcosis mechanism ofmethyl- and/or chloro-substi-

tuted anilines, 183
polydimethylsiloxane, effects on
Nereis diversicolor in sediment,

review of fate and toxicity, 3,4-dichloroaniline in aquatic environment, 1489 studies in earthworm, approach to

quantitative structure-activity relationships, 1023

Transport

and fate, 2,3,7,8-TCDD, soybean and com, 359 sorption and mobility of organic contaminants in soil, cosolvent effects, 575

Ultra violet light

U.V.absorber compds, effect of substituted benzophenones on photo-degradation of fenitrothion, 589

Vapour and vapourisation entropy of vaporisation, non Hbonding compds, effect of chain length, 111

evaporation of pesticides from natural and model surfaces in field and laboratory study, 1109 general structure-vapor pressure

relationships, organo compds,

in plant leaves azalea model, 525 pesticide vapours, bioconcetration

thiosulfinates in vapaor phase, stable and persist in the environment of Allium 837

vapour sorption on soils, use of gas chromatography for characterisation, review, 537

Vegetation

evaporation of pesticides from natural and model surfaces in field and laboratory study, 1109

PCDF and PCDD, comparison of levels in soil grass, cow's milk, hunam blood and spruce needles, metal reclamation plant area, 1451

Volatile compounds

chlorinated organic compds, emisganochlorine waste material, 761

moderate and low volatility compds, dynamic vapor generator, 991

volatilization, drift and distribution, diazinon resulting from spray application to a dormant peach orchard 1303

Wastes

chemical-, from Kirk Sandall/ Edenthorpe/ Barnby Dun area, PCDF, PCDD and PCB concetrations, 563

organochlorine material, combustion, emission of volatile chlorinated organic compds, 761

Water

chemistry of fluoride-aluminium in forest ecosystems of Europe,

ground-, contamination by selected metabolites and atrazine. 813

ground-, organic halogen group parameters, 135

samples, simultaneous analysis of 50 pesticides by solid phase extraction and GC-MS, 1411

storm water runoff, pollution by PCBs, lindane, Pb,Zn and Cr, 1101

Xenobiotics

14C- lindane and 14C-atrazine, effect on early life stages of Brachydanio rerio, 1125

kinetics of-, model, chemical exchange and animal physiology that is not compd-specific and not specific, 681

AUTHOR INDEX VOL. 21, 1990

Abramowitz R. and Yalkowsky S.H. Estimation of aqueous solubility and melting point of PCB congeners 1221

Adams V.D. see Riter R.E. 717 Adroher F.J. Osuna A. and Lupianez J.A. Influence of some amino acids on multiplication and metacyclogenesis of Trypanosoma cruzi 269

Adroher F.J. see Velasco J.R. 263

Ahmed S. see Modak D.P. 275 Ambidge P.F. Cox E.A. Creaser C.S. Greenberg M. de M. Gem M.G. Gilbert J. Jones P.W. Kibblewhite M.G. Levey J. Lisseter S.G. Meredith T.J. Smith L. Smith P. Startin J.R. Stenhouse I. and Whitworth M. Acceptance criteria for analytical data on polychlorinated dibenzo-p-dioxins and polychlorinated diben-zofurans 999

Andersson R. see Rappe C. 43 Ankley G.T. Peterson G.S. Lukasewycz M.T. and Jensen D.A. Characteristics of surfactants in toxicity identification evaluations 3

Ares J. Fluoride-aluminium water chemistry in forest ecosystems of Central Europe 597 Ariese F. see Mastenbrock J.W.G.

Arnold L.M. Lin D.T. and Schultz T.W. QSAR for methyl- and/or chloro-substituted anilines and the polar narcosis mechanism of toxicity 183

Attar A. see El Arab A.E. 193 Auger J. Lalau-Keraly F.X. and Belinsky C. Thiosulfinates in vapor phase are stable and they can persist in the environment of Allium 837

Bacci E. Cerejeira M.J. Gaggi C. Chemello G. Calamari D. and Vighi M. Bioconcentration of organic chemical vapours in plant leaves: the azalea model 525

Backlund P. Smeds A. and Holmbom B. Chemical stability of the potent bacterial mutagen (Z)-2-chloro-3-(dichloromethyl)-4-oxobutenoic acid (MX) and some related compounds at simu-

lated ames test conditions 771 Badon R. Bastide J. and Sabadie J. Reactivite de l'herbicide metsulfuron methyle, synthese des produits de degradation 289

Badsha K.S. see Stenhouse I.A. 563 Balajee S. and Mahadevan A. Influence of chloroaromatic substances on the biological activity of Azotobacter chroococcum 51 Ball M. see Schecter A. 1017

Ballhorn L. see El Arab A.E. 193 Baneriee S. Howard P.H. and Lande S.S. General structure-vapor pressure relationships for organics 1173

Bangert J. see Schecter A. 1337 Barak N.A.-E. see Mason C.F. 695 Bassi G. see Benfenati E. 1411 Bastide J. see Badon R. 289 Battersby N.S. A Review of biodegradation kinetics in the

aquatic environment 1243 Baughman R. see Schecter A. 1337 Baxter R.M. Reductive dechlorination of certain chlorinated organic compounds by reduced hematin compared with their behaviour in the environment 451

Beck H. Dross A. Mathar W. and Wittkowski R. Influence of different regional emissions and cardboard containers on levels of PCDD, PCDF and related compounds in cow milk 789

Behki R.M. and Khan S.U. Degradation of [1-14C-propyl]EPTC (S-ethyl dipropylthiocarbamate) by a soil bacterial isolate 1457

Behnert S. Levsen K. Priess B. Svoboda M. Winkeler H.-D. and Zietlow J. Organic compounds in precipitation 1037

Belinsky C. see Auger J. 837 Benfenati E. Tremolada P. Chiappetta L. Frassanito R. Bassi G. Di Toro N. Fanelli R. and Stella G. Simultaneous analysis of 50 pesticides in water samples by solid phase extraction and GC-MS 1411

Benfenati E. see Mariani G. 507 Bennett D. Girling A.E. and Bounds A. Ecotoxicology of oil products: preparation and characterisation of aqueous test media

Benoit F.M. see LeBel G.L. 1465 Benz J. see Voigt K. 1429 Beyerbach M. and Heidmann W.A. Characterization of PCB mixtures found in biological samples by evaluating the stability of the phenyl components towards environmental influences 613

Beyerle-Pfnur R. and Lay J .- P. Adsorption and desorption of 3,4-dichloroaniline on soil 1087 Boehncke A. Siebers J. and Nolting H.-G. Investigation of the evaporation of selected pesticides from natural and model surfaces

in field and laboratory 1109 Boethling R.S. see Schwartz S.M. 1153

Bouchard D.C. Mravik S.C. and Smith G.B. Benzene and naphthalene sorption on soil contaminated with high molecular weight residual hydrocarbons from unleaded gasoline 975

Bouchard D.C. see Wood A.L. 575 Bounds A. see Bennett D. 659

Brilis G.M. and Marsden P.J. Comparative evaluation of Soxhlet and sonication extraction in the determination of polynuclear aromatic hydrocarbons in soil 91 Brjukhanov P. see Hasanen E. 339

Broman D. Naf C. Rolff C. and Zebuhr Y. Analysis of polychlorinated dibenzo-pdioxins (PCDD) and polychlorinated dibenzofurans (PCDF) in soil and digested sewage sludge from Stockholm, Sweden 1213

Broman D. Naf C. Wik M. and Renberg I. The importance of spheroidal carbonaceous particles (SCPs) for the ditribution of particulate polycyclic aromatic hydrocarbons (PAHs) in an estuarine-like urban coastal water area 69

Brooke D. Nielsen I. de Bruljn J. and Hermens J. An interlaboratory evaluation of the stirflask method for the determination of octanol-water partition coefficients (log Pow) 119 Brusseau M.L. see Wood A.L. 575 Bulman R.A. see Pussemier L.

Bulman R.A. see Szabo G. 495 Bulman R.A. see Szabo G. 729 Bulman R.A. see Szabo G. 777 Burka L.T. McGown S.R. and Tomer K.B. Identification of the biliary metabolites of

2,3,7,8-tetrachlorodibenzofuran in the rat 1231

Bush B. see Hong C .- S. 173 Calamari D. see Bacci E. 525 Cardoso J.N. see Simoneit B.R.T. 1285

Carru A.-M. see Granier L. 1101 Caunter J.E. see Craig N.C.D. 751 Cerejeira M.J. see Bacci E. 525 Chemello G. see Bacci E. 525 Chevreuil M. see Granier L. 1101 Chiappetta L. see Benfenati E. 1411

Chin Y .- P. see Grasso D. 1181 Chueca M.C. see Garcia-Baudin J.M. 223

Collins M.C. see Eiceman G.A. 35 Colmsjo A.L. see Nilsson U.L. 939 Connell D.W. see Warne M.St.J.

Constable J.D. see Schecter A. 1337

Cox E.A. see Ambidge P.F. 999 Cox E.A. see Creaser C.S. 931 Craig N.C.D. and Caunter J.E. The effects of polydimethyl-siloxane (PDMS) in sediment on the polychaete worm Nereis diversicolor 751

Creaser C.S. Fernandes A.R. Harrad S.J. and Cox E.A. Levels and sources of PCDDs and PCDFs in urban British soils 931

Creaser C.S. see Ambidge P.F. 999 Crossland N.O. A review of the fate and toxicity of 3,4-dichloroaniline in aquatic environments 1489

Damgaard B.M. see Nyholm N.

Das A.K. see Raha P. 99 de Bruijn J. see Brooke D. 119 de M. Gem M.G. see Ambidge P.F.

de Voogt P. Muir D.C.G. Webster G.R.B. and Govers H. Quantitative structure-activity relationships for the bioconcentration in fish of seven polychlorinated dibenzodioxins 1385

Debus R. and Schroder P. Responses of Petunia bybrida and Phaseolus vulgaris to fumigation with difluoro-chloro-bromomethane(Halon 1211) 1499

Deschauer H. and Kogel-Knabner I. Sorption behavior of a new acidic herbicide in soils 1397 Di Toro N. see Benfenati E. 1411 Dross A. see Beck H. 789 Eiceman G.A. Hoffman R.V. Col-

lins M.C. Long Y .- T. and Lu M.-Q. Chlorine substitution reactions of polycyclic aromatic hydrocarbons on fly ash from coal-

fired power plants 35 El Arab A.E. Attar A. Balthorn L. Freitag D. and Korte F. Behavior of diazinon in a perch species 193 Emmelin C. see Magnard C. 1095 Engelhardt G. see Zill G. 435 Fanelli R. see Benfenati E. 1411 Fanelli R. see Mariani G. 507 Feltz K. see Smith L.M. 1063 Fernandes A.R. see Creaser C.S.

Fischer P. see Lukacs B. 13 Flosser-Muller H. see Schwack W. 905

Fox G.A. see Kennedy S.W. 407 Frassanito R. see Benfenati E.

Freitag D. see El Arab A.E. 193 Fukui S. Yoshimura Y. Ogawa S. and Hanazaki Y. Formation of non-volatile potent mutagens in domestic sewage by chlorination 705

Furst Chr. see Oehme M. 519

Furst P. see Oehme M. 519 Furst P. see Schecter A. 1337 Furuya M. see Kawaguchi H. 1435 Gaggi C. see Bacci E. 525 Gan J. Hussain M. Perschke H. and Rathor M.N. The effect of substituted benzophenonesd on the photochemical fate of fenitrothion

insecticide 589 Gander L.K. see McCrady J.K. 359 Garcia-Baudin J.M. Villarroya M. Chueca M.C. and Tadeo J.L. Different tolercance of two cultivars of Triticum turgidum, L. to metribuzin 223

Gardner A.M. and White K.D. Polychlorinated dibenzofurans in the edible portion of selected fish 215

George D.B. see Riter R.E. 717 Gerike P. and Gode P. The biodegradability and inhibitory threshold concentration of some disinfectants 799 Gilbert J. see Ambidge P.F. 939

Girling A.E. see Bennett D. 659 Glotfelty D.E. Schomburg C.J. McChesney M.M. Sagebiel J.C. and Seiber J.N. Studies of the distribution, drift, and volatilization of diazinon resulting from spray application to a dormant peach orchard 1303

Glotfelty D.W. see Pionke H.B. 813 Goddard M. see LeBel G.L. 1465 Gode P. see Gerike P. 799 Gonzalez-Lopez J. see Martinez-Toledo M.V. 243

Gooch J.W. Matsumura F. and Zabik M.J. Chlordane residues in Great Lakes lake trout: acute toxicity and interaction at the GABA receptor of rat and lake trout brain

Gooijer C. see Mastenbroek J.W.G. Gorge G. and Nagel R. Kinetics

and metabolism of 14C-lindane and 14C-atrazine in early life stages of zebrafish (Brachydanio rerio) 1125

Govers H. see de Voogt P. 1385 Grachev M.A. see Maatela P. 1381 Granier L. Chevreuil M. Carru A .- M. and Letolle R. Urban run off pollution by organochlorines (polychlorinated biphenyls and lindane) and heavy metals (lead, zinc and chromium) 1101

Grasso D. Chin Y .- P. and Weber W.J.Jr. Structural and behavioral characteristics of a commercial humic acid and natural dissolved aquatic organic matters 1181 Greenberg M. see Ambidge P.F.

Groebel W. see Oehme M. 519 Gron C. Organic halogen group parameters in ground water investigations - III 135

Hackney P. see Reed L.W. 159 Hagenmaler H. see Riss A. 1451 Hakala H. see Paasivirta J. 1355 Hanazaki Y. see Fukui S. 705

Hand V.C. Rapaport R.A. and Pittinger C.A. First validation of a model for the adsorption of linear alkylbenzenesulfonate (LAS) to sediment and comparison to chronic effects data 741

Harrad S.J. see Creaser C.S. 931 Hasan S.K. see Srivastava S.K. 925 Hasanen E. Lipponen M. Kattainen R. Markkanen K. Minkkinen P. and Brjukhanov P. Elemental concentrations of

aerosol samples from the Baltic Sea area 339 Hashimoto S. Wakimoto T. and

Tatsukawa R. PCDDs in the sediments accumulated about 8120 years ago from Japanese coastal areas 825

Hashimoto Y. see Kishi H. 867 Hawker D.W. see Warne M.St.J.

Heidemann G. see Lukacs B. 13 Heidmann W.A. see Beyerbach M. 613

Hennebole J. and Parlar H. Ein Beitrag zur Bestimmung der Metabolisierungsraten von Pentachlorphenol bei Menschen 919

Henriks-Eckerman M.-L. Sampling efficiency of Amberlite XAD-2 with glassfiber prefilter and activated charcoal as back-up section for collection of mixtures of organic air pollutants at the

Llg/m3 level 889 Hermens J. see Brooke D. 119 Hoffman R.V. see Eiceman G.A. 35 Hofstraat J.W. see Mastenbroek J.W.G. 377

Hogel H. see Steinberg C.E.W. 201 Holmbom B. see Backlund P. 771 Holt M.S. see Mieure J.P. 251 Hong C .- S. and Bush B. Determination of mono- and non-ortho

coplanar PCBs in fish 173
Howard P.H. see Banerjee S. 1173
Hoyt M. see Reed L.W. 159
Hunt G.T. see Reed L.W. 159
Hussain M. see Gan J. 589
Imanura E. see Yamazaki H. 21
Inanaga J. see Maeda S. 965
Jensen D.A. see Ankley G.T. 3
Jones P.W. see Ambidge P.F. 999
Kakiuchi Y. see Yamazaki H. 21
Kamel S. see Yamazaki H. 21
Karabanov E.B. see Maatela P.
1381

Kattainen R. see Hasanen E. 339 Kawaguchi H. and Furuya M. Photodegradation of monochlorobenzene in titanium

dioxide aqueous suspensions 1435 Kawamoto K. and Urano K. Parameters for predicting fate of organochlorine pesticides in the environment (III) biodegradation rate constants 1141

Keefe D. see Reed L.W. 159
Kennedy S.W. and Fox G.A.
Highly carboxylated porphyrins as
a biomarker of polyhalogenated
aromatic hydrocarbon exposure in
wildlife: confirmation of their
presence in Great Lakes Herring
Gull chicks in the early 1970s and
important methodlogical details
407

Khan S.U. see Behki R.M. 1457 Kibblewhite M.G. see Ambidge

Kishi H. Kogure N. and Hashlmoto Y. Contribution of soil consituents in adsorption coefficient of aromatic compounds, halogenated alicyclic and aromatic compounds to soil 867

Kishida F. Takahashi N. Matsuo M. and Yamada H. A new fugacity model for aerial application of pesticides – I. The fate of a pesticide in the "spray zone" and the "adjacent zones" 527 Kishida F. Takahashi N. Matsuo M. and Yamada H. A fugacity

Kishida F. Takahashi N. Matsuo M. and Yamada H. A fugacity model for aerial application of pesticides — II. The temperaturedependent changes of a pesticide fate 647

Kline E.A. see Riter R.E. 717 Knutzen J. and Oehme M. Corrigendum 1342

Knuutinen J. see Paasivirta J. 1355 Koenlg B.G. and Metcaffe C.D. The distribution of PCB congeners in bivalves, Elliptio complanata, introduced into the Otonabee river, Peterborough, Ontario 1441 Kogel-Knabner I. see Deschauer H. 1397

Kogure N. see Kishi H. 867
Koistinen J. Paasivirta J. and
Sarkka J. Organic chlorine compounds in lake sediments. IV.
Dioxins, furans and related
chloroaromatic compounds 1371
Koistinen J. see Sinkkonen S. 1161
Kooljman S.A.L.M. and van
Haren R.J.F. Animal energy

budgets affect the kinetics of

xenobiotics 681
Korte F. see El Arab A.E. 193
Kublak T.J. see Smith L.M. 1063
Lach G. and Parlar H. Quantification of toxaphene residues in fish
and fish products using a new
analytical standard 29
Lalau-Keraly F.X. see Auger J.

837 Lammi R. see Paasivirta J. 1355 Lande S.S. see Banerjee S. 1173 Lay J.-P. see Beyerle-Pfnur R. 1087

LeBel G.L. Williams D.T. Benoit F.M. and Goddard M. Polychlorinated dibenzodioxins and dibenzofurans in human adipose tissue samples from five Ontario municipalities 1465 LeBel G.L. see Williams D.T. 487 Leighton T. see Schwartz S.M.

Lenoir D. see Wania F. 417 Lester J.N. see Yeoman S. 443 Letolle R. see Granier L. 1101 Levey J. see Ambidge P.F. 999 Levsen K. see Behnert S. 1037 Lilla E. see Perez G. 333 Lin D.T. see Amold L.M. 183 Lipponen M. see Hasanen E. 339 Lisseter S.G. see Ambidge P.F. 999 Long Y.-T. see Eiceman G.A. 35 Lu M.-Q. see Eiceman G.A. 35

Lu M.-Q. see Eiceman G.A. 35 Lukacs B. Vetter W. Fischer P. Heidemann G. and Piotz J. Characteristic chlorinated hydrocarbon patterns in the blubber of seals from different marine regions 13

Lukacs B. and Oehme M. Characteristic contamination levels for polychlorinated hydrocarbons, dibenzofurans and dibenzo-pdioxins in bream (Abramis brams) from the river Elbe 79

Lukasewycz M.T. see Ankley G.T.

3
Lundstrom K. see Rappe C. 43
Lunianez L.A. see Adrober F.I. 269

Luplanez J.A. see Adroher F.J. 269 Luther M. Nitro- and amino- substituted aromatic compounde as nitrogen sources for the green alga Scenedesmus obliquus 231 Maatela P. Paasivirta J. Sarkka J.

and Paukku R. Organic chlorine compounds in lake sediments. II. Organically bound chlorine 1343 Maatela P. Paasivirta J. Grachev

Maatela P. Paasivirta J. Grachev M.A. and Karabanov E.B. Organic chlorine compounds in lake sediments. V. Bottom of Baikal near a pulp mill 1381

Mackay D. see Paterson S. 297
Maeda S. Mizoguchi M. Ohki A.
and Takeshita T. Bioaccumulation of zinc and cadmium in freshwater alga, Chlorella vulgaris – I.
Toxicity and accumulation 953

Toxicity and accumulation 953
Maetla S. Mizoguchi M. Ohki A.
Inanaga J. and Takeshita T.
Bioaccumulation of zinc and cadmium in freshwater alga, Chorella vulgaris -II. Association mode of the metals and cell tissue 965
Magnard C. Emmelin C. and
Meallier P. Etude de la concen-

tration en eau oxygenee lors de la photolyse de l'isoproturon en milieu alcoolique 1095 Mahadevan A. see Balajee S. 51

Mahadevan A. see Balajee S. 51 Maisel B.E. see Reed L.W. 159 Mamouni A. see Meallier P. 913 Mansour M. see Meallier P. 913 Marlani G. Benfenati E. and Fanelli R. Concentrations of PCDD and PCDP in different

Fanelli R. Concentrations of PCDD and PCDF in different poins of a modern refuse incinerator 507

Markkanen K. see Hasanen E. 339 Marsden P.J. see Brilis G.M. 91 Martinez-Toledo M.V. Salmeron V. and Gonzalez-Lopez J. Effect of Azotobacter inoculation on nitrogenase activity of Hordeum vulgare 243

Mason C.F. and Barak N.A.—E. A catchment survey for heavy metals using the eel (Anguilla anguilla) 695

Mastenbroek J.W.G. Arlese F. Gooijer C. Velthorst N.H. Hofstraat J.W. and van Zeiji W.J.M. Shpol'skii fluorimetry as an independent identification method to upgrade routine HPLC analysis of polycyclic aromatic hydrocarbons 377

Mathar W. see Beck H. 789
Matsumura F. see Gooch J.W. 393
Matsuo M. see Kishida F. 627
Matsuo M. see Kishida F. 647
Matthijs E. see Mieure J.P. 251
McChesney M.M. see Glotfelty
D.E. 1303

McCrady J.K. McFarlane C. and Gander L.K. The transport and fate of 2,3,7,8-TCDD in soybean and com 359

McFarlane C. see McCrady J.K. 359

McGown S.R. see Burka L.T. 1231
Meallier P. Mamouni A. and Mansour M. Influence de
l'acetophenone sur la photostabilite des formulations: cas du
carbetamide formule 913
Meallier P. see Magnard C. 1095
Meemken H.A. see Oehme M. 519
Meredith T.J. see Ambidge P.F.

Metcalfe C.D. see Koenig B.G. 1441

Mieure J.P. Waters J. Holt M.S. and Matthijs E. Terrestrial safety assessment of linear alkylbenzene sulfonate 251 Minkkinen P. see Hasanen E. 339

Mishra D.S. and Yalkowsky S.H.
Estimation of entropy of vaporization: effect of chain length 111
Mishra D.S. see Yalkowsky S.H.
107

Mizoguchi M. see Maeda S. 953 Mizoguchi M. see Maeda S. 965 Modak D.P. Singh K.P. Ahmed S. and Ray P.K. Trace metal ions in Ganga water system 275 Monteoliva-Sanchez M. see Ruiz

C. 701 Morabito P.L. Ormand J.R. and Nestrick T.J. Dynamic vapor generator for moderate and low volatility compounds 991 Morita M. see Yasuhara A. 479 Morris K.R. see Yalkowsky S.H. 107

Mravik S.C. see Bouchard D.C. 975

Mucke W. see Pogany E. 557 Mucke W. see Voigt K. 1429 Muir D.C.G. see de Voogt P. 1385 Muir D.C.G. see Sijm D.T.H.M. 845

Muto H. and Takizawa Y. The photolysis of organic substances under atmospheric conditions with a cylindrical photoreactor using ethylo nitrite and nitrogen dioxide 1423

Muto H. see Shinada M. 57
Naf C. see Broman D. 1213
Naf C. see Broman D. 1213
Naf C. see Broman D. 69
Nagel R. see Gorge G. 1125
Nakanishi J. see Suzuki N. 387
Nakano T. see Oki N. 761
Nestrick T.J. see Morabito P.L. 991
Nielsen I. see Brooke D. 119
Nilsson U.L. and Colmsjo A.L.
Formation of chlorinated
polycyclic aromatic hydrocarbons
in different chlorination reactions
939

Nolting H.-G. see Boehncke A. 1109

Norstrom A. and Scheepers P.T.J. Determination of n-decane and m-xylene in blood using amverlite XAD-2 459

Nyholm N. Biogradability testing of poorly soluble compounds by means of manometric

respirometry 1477 Nyholm N. and Damgaard B.M. A comparison of the algal growth inhibition toxicity test method with the short term 14C-assimilation test 671

Oates R.P. see Schecter A. 1337
Oehme M. Ryg M. Furst P. Furst
Chr. Meemken H.A. and
Groebel W. Re-evaluation of
concentration levels of
polychlorinated dibenzo-pdioxins and dibenzofurans in Artic
seal from Spitzbergen 519
Oehme M. see Knutzen J. 1342
Oehme M. see Lukacs B. 79
Ogawa S. see Fukui S. 705
Ohki A. see Maeda S. 965
Okamura Y. see Shinada M. 57
Oki N. Nakano T. Okuno T. Tsuji

Oki N. Nakano T. Okuno T. Tsuji M. and Yasuhara A. Emission of volatile chlorinated organic compounds by combustion of waste organochlorine material 761

Okuno T. see Oki N. 761 Opperhutzen A. see Sijm D.T.H.M.

Ormand J.R. see Morabito P.L. 991

Osuna A. see Adroher F.J. 269
Osuna A. see Velasco J.R. 263
Otollinen T. see Paasivirta J. 1355
Paasivirta J. Hakala H.

Knuutinen J. Otollinen T. Sarkka J. Welling L. Paukku R. and Lammi R. Organic chlorine compounds in lake sediments. III. Chlorohydrocarbons, free and chemically bound chlorophenols 1355

Paasivirta J. see Koistinen J. 1371 Paasivirta J. see Maatela P. 1343 Paasivirta J. see Maatela P. 1381 Panigrahy B. see Yao C. 1007 Papke O. see Schecter A. 1017 Parlar H. see Hennebole J. 919 Parlars H. see Lach G. 29 Paterson S. Mackay D. Tam D.

Paterson S. Mackay D. Tam D. and Shiu W.Y. Uptake of organic chemicals by plants: a review of processes, correlations and models 297

Paukku R. see Maatela P. 1343
Paukku R. see Passivirta J. 1355
Pawlizki K.—H. see Pogany E. 349
Perez G. and Lilla E. An ionic
pathway to fluoranthene 333
Perry R. see Yeoman S. 443
Perschke H. see Gan J. 589
Peterson G.S. see Ankley G.T. 3
Picer M. see Picer N. 153
Picer N. and Picer M. Long-term

trations in mussels (Mytilus galloprovincialais) 153 Pillai M.K.K. see also 1315 Pionke H.B. and Glotfelty D.W. Contamination of groundwater by

trends of DDT and PCB concen-

atrazine and selected metabolites 813 Pittinger C.A. see Hand V.C. 741 Plotz J. see Lukacs B. 13 Pogany E. Pawlizki K.-H. and Walinofer P.R. Formation, distri-

Walinofer P.R. Formation, distribution and bioavailability of cell wall bound residues of 4-chloroaniline and 2,4-dichlorophenol 349

Pogany E. Wallnofer P.R. Ziegler W. and Mucke W. Metabolism of o-nitroaniline and di-n-butyl phthalate in cell suspension cultures of tomatoes 557

Priess B. see Behnert S. 1037

Prosser S.L. see Szabo G. 495 Prosser S.L. see Szabo G. 729 Prosser S.L. see Szabo G. 777 Pussemier L. Szabo G. and Bulman R.A. Prediction of the soil adsorption coefficient Koc for aro-

matic pollutants 1199
Raha P. and Das A.K.
Photodegradation of carbofuran 99
Ramos-Cormenzana A. see Ruiz

C. 701
Rao P.S.C. see Rhue R.D. 537
Rao P.S.C. see Wood A.L. 575
Rapaport R.A. see Hand V.C. 741
Rappe C. Andersson R.

Lundstrom K. and Wiberg K. Levels of polychlorinated dioxins and dibenzofurans in commerical detergents and related products 43 Rathor M.N. see Gan J. 589 Ray P.K. see Modak D.P. 275 Reed L.W. Hunt G.T. Maisel B.E. Hoyt M. Keefe D. and Hackney P. Baseline assessment of PCDDs/ PCDFs in the vicinity of the Elk River, Minnesota generating station 159

Renberg I. see Broman D. 69 Rhue R.D. and Rao P.S.C. Application of gas chromatographic techniques for characterizing vapor sorption on soils: a review 537

Riss A. Hagenmaler H. Weberruss
U. Schlatter C. and Wacker R.
Comparison of PCDD/PCDF levels in soil, grass, cow's milk, human blood and spruce needles in an area of PCDD/PCDF contamination through emissions from a metal reclamation plant 1451
Riter R.E. Adams V.D. George

Riter R.E. Adams V.D. George D.B. and Kline E.A. The effects of selected iron compounds on the sensitized photooxidation of bromacil 717

Robinson N. see Simoneit B.R.T. 1285

Rolff C. see Broman D. 1213
Ruiz C. Monteoliva—Sanchez M.
and Ramos—Cormenzana A. Non
specific effect on the immune response by Flavobacterium holmophilum and Planococcus
halophilus 701

Ryan J.J. see Schecter A. 1337 Ryg M. see Ochme M. 519 Sabadie J. see Badon R. 289 Safe S. see Yao C. 1007 Sagebiel J.C. see Glotfelty D.E. 1303

Salmeron V. see Martinez-Toledo M.V. 243

Sarkka J. see Koistinen J. 1371 Sarkka J. see Maatela P. 1343 Sarkka J. see Paasivirta J. 1355 Satake K. see Yasuno M. 1321 Schecter A. Papke O. and Ball M.

Evidence for transplacental transfer of dioxins from mother to fetus: chlorinated dioxin and dibenzofuran levels in the livers of stillborn infants 1017

Schecter A. Ryan J.J. Constable J.D. Baughman R. Bangert J. Furst P. Wilmers K. and Oates R.P. Corrigendum 1337 Scheepers P.T.J. see Norstrom A.

459

Schlatter C. see Riss A. 1451 Schomburg C.J. see Glotfelty D.E. 1303

Schroder P. see Debus R. 1499 Schultz T.W. see Amold L.M. 183 Schuurmann G. QSAR analysis of the acute toxicity of oxyethylated surfactants 467

Schuurmann G. see Warne M.St.J. 877

Schwack W. and Flosser-Muller H. Fungicides and photochemistry. Photodehalogenation of captan 905 Schwartz S.M. Boethling R.S. and

Schwartz S.M. Boethling R.S. and Leighton T. Fate of the terpenes anethole and dipentene in a bench-scale activated sludge sys-

tem 1153 Schwartz T.R. see Smith L.M. 1063

Seiber J.N. see Glotfelty D.E. 1303 Seinen W. see Sijm D.T.H.M. 845 Shinada M. Muto H. Okamura Y. and Takizawa Y. Induction of phospholipid peroxidation and its characteristics by methylmercury chloride and mercuric chloride in rat kidney 57

Shiu W.Y. see Paterson S. 297 Siebers J. see Boehncke A. 1109 Sijm D.T.H.M. Yarechewski A.L. Muir D.C.G. Webster G.R.B. Seinen W. and Opperhuizen A. Biotransformation and tissue distribution of 1,2,3,7-tetrachlorodibenzo-pdioxin, 1,2,3,4,7-pentachlorodibenzo-p-dioxin and 2,3,4,7,8-pentachlorodibenzofuran

in rainbow trout 845 Simoneit B.R.T. Cardoso J.N. and Robinson N. An assessment of the origin and composition of higher molecular weight organic

matter in aerosols over Amazonia

Singh K.P. see Modak D.P. 275 Sinkkonen S. and Koistinen J. Chlorinated and methylated dibenzothiophenes: preparation of the model compounds and their analysis from some environmental samples 1161

Smeds A. see Backlund P. 771 Smith G.B. see Bouchard D.C. 975 Smith L. see Ambidge P.F. 999 Smith L.M. Schwartz T.R. Feltz K. and Kublak T.J. Determination and occurrence of AHH-active polychlorinated biphenyls, 2,3,7,8-tetrachloro-p-dioxin and 2,3,7,8-tetrachlorodibenzofuran in Lake Michigan sediment and biota. The question of their relative toxicological significance 1063

Smith P. see Ambidge P.F. 999 Srivastava R.C. see Srivastava S.K.

Srivastava S.K. Hasan S.K. and Srivastava R.C. Toxicokinetics of nickel in glutathione depleted rats

Startin J.R. see Ambidge P.F. 999 Steinberg C.E.W. and Hogel H. Forms of metals in a sediment core of a severely acidified northem Black Forest Lake 201 Stella G. see Benfenati E. 1411 Stenhouse I. see Ambidge P.F. 999 Stenhouse I.A. and Badsha K.S. PCB, PCDD and PCDF concentrations in soils from the Kirk Sandall/Edenthorpe/Barnby Dun area

Suzuki N. and Nakanishi J. The determination of strong mutagen 3-chloro-4-(dichloromethyl)-5-h ydroxy-2(5H)-fur anone in drinking water in Japan 387

Svoboda M. see Behnert S. 1037 Szabo G. Prosser S.L. and Bulman R.A. Prediction of the adsorption

coefficient (Koc) for soil by a chemically immobilized humic

acid column using RP-HPLC 729 Szabo G. Prosser S.L. and Bulman R.A. Determination of the adsorption coefficient (Koc) of some aromatics for soil by RP-HPLC on two immobilized humic acid phases 777

Szabo G. Prosser S.L. and Bulman R.A. Adsorption coefficient (Koc) and HPLC retention factors of aromatic hydrocarbons 495 Szabo G. see Pussemier L. 1199

Tadeo J.L. see Garcia-Baudin J.M.

Tai H.-H. see Yamazaki H. 21 Takahashi N. see Kishida F. 627 Takahashi N. see Kishida F. 647 Takeshita T. see Maeda S. 953 Takeshita T. see Maeda S. 965 Takizawa Y. see Muto H. 1423 Takizawa Y. see Shinada M. 57 Tam D. see Paterson S. 297 Tatsukawa R. see Hashimoto S. 825

Tomer K.B. see Burka L.T. 1231 Tremolada P. see Benfenati E. 1411

Tsuji M. see Oki N. 761 Urano K. see Kawamoto K. 1141 van Gestel C.A.M. and Wei-chun Ma. An approach to quantitative structure-activity relationships (QSARs) in earthworm toxicity

studies 1023 van Haren R.J.F. see Kooijman S.A.L.M. 681

van Zeijl W.J.M. see Mastenbroek J.W.G. 377

Velasco J.R. Adroher F.J. and Osuna A. In vitro survival of amastigote forms of Trypanosoma cruzi in media conditioned by Vero cells 263

Velthorst N.H. see Mastenbroek I.W.G. 377

Verma A. and Pillai M.K.K. Bound residues of DDT and HCH in wheat and their bioavailability to rats 1315

Vetter W. see Lukacs B. 13 Vighi M. see Bacci E. 525 Villarroya M. see Garcia-Baudin

J.M. 223 Voigt K. Benz J. and Mucke W. Registering and analysing data on detection of chemicals in the environment 1429

Wacker R. see Riss A. 1451 Wakimoto T. see Hashimoto S. 825 Wallnofer P.R. see Pogany E. 349 Wallnofer P.R. see Zill G. 435 Wallnofer P.R. see Pogany E. 557 Wania F. and Lenoir D. Copper-

promoted reactions of polybrominated dibenzo-paradioxins (PBrDD) 417

Warne M.St.J. Connell D.W. Hawker D.W. and Schuurmann G. Prediction of aqueous solubility and the octanol-water partition coefficient for lipophilic organic compounds using molecular de-

scriptors and physiochemical properties 877 Waters J. see Mieure J.P. 251

Weber W.J., Jr. see Grasso D. 1181 Weberruss U. see Riss A. 1451 Webster G.R.B. see de Voogt P. 1385

Webster G.R.B. see Sijm D.T.H.M. 845

Wei-chun Ma. see van Gestel C.A.M. 1023

Welling L. see Paasivirta J. 1355 White K.D. see Gardner A.M. 215 Whitworth M. see Ambidge P.F. 999

Wiberg K. see Rappe C. 43 Wik M. see Broman D. 69 Williams D.T. and LeBel G.L. Comparison of GC-ECD and GC-MS for the determination of specific polychlorinated biphenyl congener residues in human adipose tissue 487

Williams D.T. see LeBel G.L. 1465 Wilmers K. see Schecter A. 1337 Winkeler H.-D. see Behnert S.

1037 Wittkowski R. see Beck H. 789 Wood A.L. Bouchard D.C. Brusseau M.L. and Rao P.S.C. Cosol-

vent effects on sorption and mobility of organic contaminants in soils 575 Yalkowsky S.H. Mishra D.S. and

Morris K.R. Dependence of vapor pressure of solids and liquids on various thermodynamic parameters 107

Yalkowsky S.H. see Abramowitz R. 1221

Yalkowsky S.H. see Mishra D.S.

Yamada H. see Kishida F. 627 Yamada H. see Kishida F. 647 Yamauchi A. see Yamazaki H. 21 Yamazaki H. Imamura E. Kamei

S. Yamauchi A. Kakiuchi Y. and Tai H.-H. Polycyclic aromatic hydrocarbons affect the calcium ionophore induced activation of

rabbit platelet 21 Yao C. Panigrahy B. and Safe S. Utilization of cultured chick embryo hepatocytes as in vitro bioassays for polychlorinated biphenyls (PCBs): quantitative structure-induction relationships 1007

Yarechewski A.L. see Sijm D.T.H.M. 845

Yasuhara A. and Morita M. Formation of chlorinated compounds in pyrolysis of trichloroethylene 479

Yasuhara A. see Oki N. 761 Yasuno M. and Satake K. Effects of diflubenzuron and methoprene on the emergence of insects and their density in an outdoor experimental stream 1321

Yeoman S. Lester J.N. and Perry R. The partitioning of polycarboxylic acids in activated sludge 443 Yoshimura Y. see Fukui S. 705

Zabik M.J. see Gooch J.W. 393 Zebuhr Y. see Broman D. 1213 Ziegler W. see Pogany E. 557 Ziegler W. see Zill G. 435 Zietlow J. see Behnert S. 1037 Zill G. Ziegler W. Engelhardt G. and Wallnofer P.R. Chemically

and biologically synthesized zearalenone-4-B-Dglucopyranoside: comparison and convenient determination by gradient HPLC 435

